

SECRET

KA-80-A CAMERA SYSTEM (OPTICAL BAR-IRIS II)

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

25X1

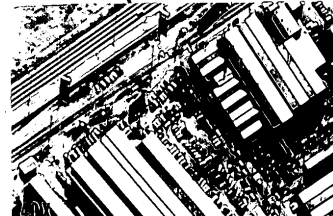
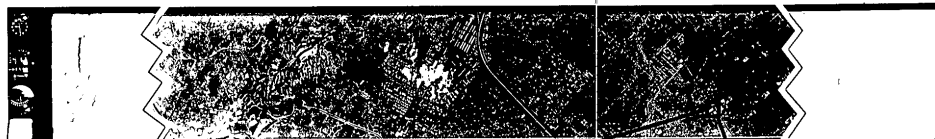
CONFIGURATION DATA

A LIGHTWEIGHT, COMPACT, PANORAMIC CAMERA SYSTEM DESIGNED FOR ACQUISITION OF HIGH QUALITY PHOTOGRAPHY FROM A HIGH ALTITUDE RECONNAISSANCE VEHICLE. THE CAMERA'S OPTICAL BAR, WHOSE PRINCIPAL ELEMENT IS A ROTATING LENS CELL, PROVIDES PANORAMIC COVERAGE BY SCANNING ACROSS THE GROUND TRACK. 25 CONVERGENT STEREOGRAPHIC GROUND COVERAGE CAN BE ACQUIRED.

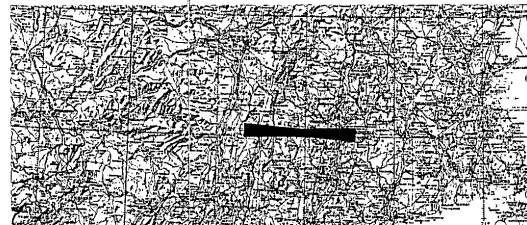
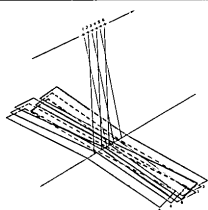
PHOTOGRAPHIC DATA

LENS	F/3.5
FOCAL LENGTH	24"
SCAN ANGLE	140°
SLIT WIDTH (VARIABLE)	.015 TO 0.25"
EXPOSURE RANGE (VARIABLE)	1/3,000 TO 1/70 SEC
EXPOSURE CONTROL	SENSOR
IMAGE MOTION COMPENSATION	TILTING STEREO GIMBAL
V/H RANGE/SENSED	005 TO 0.015 RAD/SEC
FILTERS	EQUIVALENT TO W-23 A
CAMERA WEIGHT (INCLUDING FILM)	400 LBS
GROUND RESOLUTION	100'
FORWARD OVERLAP - FWD TO FWD OR AFT TO AFT (STEREO)	10%
CONVERGENCE ANGLE - VERTICAL TO VERTICAL (MONO)	20%
CONVERGENCE ANGLE - VERTICAL TO VERTICAL (MONO)	75°
FILM TYPE	340A
FILM BASE	4.0 MIL
FILM WIDTH	5"
FILM LOAD (THIN BASE)	10,500'
FORMAT DIMENSIONS	4.5" X 58.85"
FRAMES/MISSION	2,100
TRANSVERSE COVERAGE	63.2 NM
LINEAR COVERAGE/FRAME (NADIR)	2.15 NM
LINEAR COVERAGE/MISSION	2,000 NM
SD. NAUTICAL MILES COVERAGE	126,400

DATA IS BASED ON 70,000 FT. ALTITUDE



STEREO GROUND COVERAGE



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